

DEVICE FOR REMOVING LEAD SULFATE FILM FORMED  
IN LEAD-ACID BATTERY

ABSTRACT

This invention seeks to provide a novel device for removing membranous lead sulfate deposited on electrodes of a lead-acid battery by dissolving the lead sulfate into fine particles without causing the membranous lead sulfate to fall off or be suspended in the electrolytic solution, thus to recover the performance of the battery in a deteriorated state and prolong the battery life. This invention further seeks to provide a novel device for removing membranous lead sulfate deposit on the electrodes, which can emit little noise to the outside environment.

To attain the objects as noted above according to the present invention, there is provided a device for removing membranous lead sulfate deposited on electrodes of the lead-acid battery due to sulfation by using a phenomenon bringing about a conductor skin effect of intensively dissolving the surface layer of the membranous lead sulfate deposited on the electrodes with the pulse current having a short pulse width, which device is attached to a lead-acid battery and provided with a voltage detector, reference voltage generator, voltage comparator, oscillator, amplifier, waveform shaping circuit, negative pulse generator, and electrifying indicator. The pulse width of the pulse current is preferably 1  $\mu$ s or less.